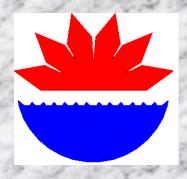
City of Monroe Engineering Department Budget Presentation



Prepared by the City of Monroe Engineering Department
Patrick M. Lewis, P.E., Director
March 31, 2014

Engineering – Departmental Functions



- Essentially, Engineering Department handles programming, design, implementation of:
 - > Streets
 - Water Mains
 - Sanitary Sewers
 - > Storm Sewers
 - Bridges
 - Parking Lots
 - > Sidewalks
 - Airport Facilities
 - Retaining Walls
 - > Dams
 - Park Facilities

Engineering – Departmental Functions

- Also handles other specific functions on regular basis:
 - Geographic Information System (GIS)
 - Traffic Committee liaison
 - Surveying for smaller projects, assisting residents
 - Property map preparation / Legal descriptions
 - Bridge Inspections (2 year frequency)
 - Dam inspections (4 year frequency)
 - Sanitary / Water Service Research for citizens
 - Traffic Counts / Crash Statistics / Analysis / Signal Timing
 - Site Plan reviews private developments / lot splits
 - Utility Planning for new developments
 - Infrastructure / Project Record-keeping
 - Preparation of construction standards
 - Railroad crossing issues
 - Utility permitting / Oversize & overweight load permits

Engineering – Budget



- Departmental Budget has one component in General fund, departmental code 40.449.
- Five-year average of 91% of departmental budget is in personnel costs, 89% for projected FY 13-14 and proposed FY 14-15
- Department administers far more in project costs from other funds, Major and Local Streets, Water and Wastewater, other funds.
- 2003-08 avg. \$3.17 million went through Department in annual construction contracts, 2009-12 avg. \$7.82 million, \$6.125 million in 2013

Engineering – Budget Chart of 5-year history



Engineering – Budget History

Expeditures

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25 37 7 7 2 24	2 3		35-34		6 3		17-38 18				28 15		2009-14		2010-15	
X - 10	09-1	0 Actual	10-11	Actual	11-	12 Actual	12-	13 Actual	13-	14 Proj.	14-1	5 Prop.	5-ye	ear average	5-ye	ear average
Personnel Services	\$	692,600	\$	773,013	\$	694,423	\$	724,576	\$	648,480	\$	647,518	\$	706,618	\$	697,602
Supplies	\$	15,222	\$	15,481	\$	12,498	\$	11,378	\$	12,400	\$	12,300	\$	13,396	\$	12,811
Operating	\$	56,936	\$	50,477	\$	49,341	\$	49,783	\$	65,752	\$	70,005	\$	54,458	\$	57,072
Capital Outlay	\$	-	\$	130	\$	1 6	\$	44 1-6	\$	- 63	\$	E 11-99	\$	26	\$	26
Operating Total	\$	764,758	\$	839,101	\$	756,262	\$	785,737	\$	726,632	\$	729,823	\$	774,498	\$	767,511
Percentage Increase		- WIN		9.7%		-9.9%		3.9%	- 6	-7.5%	20	0.4%		BREW		100

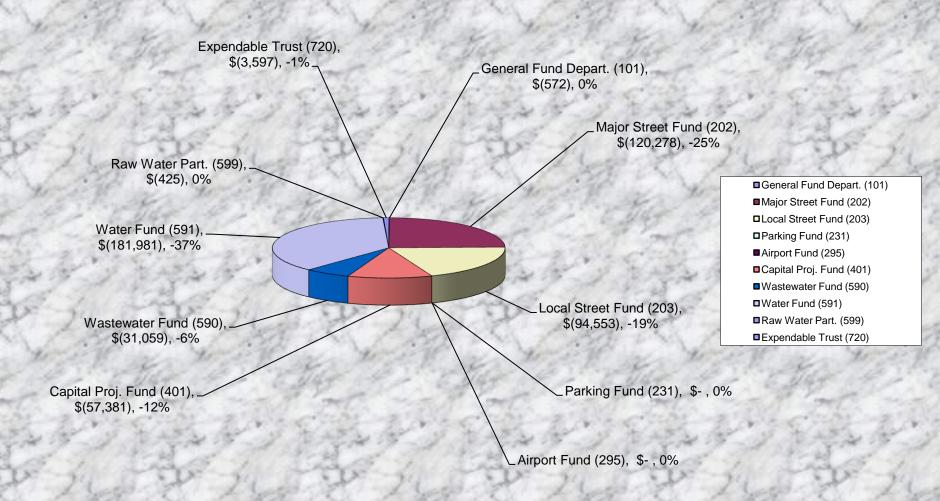
Expenditure Credits (Charged Time)

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79 Jan 18		10		19	25	1		19	5,	100	4	100	1	de la	20	09-14	201	0-15
	09-1	10 Actual	10-1	11 Actual	11-	-12 Actual	12-	13 Actual	13-	-14 Proj.	14-	15 Prop.	5-у	ear average	5-y	ear average		
General Fund Depart. (101)	\$	THE W	\$	W - 3	\$	SENE I	\$	(2,360)	\$	(500)	\$	(500)	\$	(572)	\$	(672)		
Major Street Fund (202)	\$	(96,385)	\$	(135,720)	\$	(117,160)	\$	(116,738)	\$	(135,386)	\$	(104,000)	\$	(120,278)	\$	(121,801		
Local Street Fund (203)	\$	(67,027)	\$	(56,223)	\$	(121,789)	\$	(84,928)	\$	(142,799)	\$	(91,500)	\$	(94,553)	\$	(99,448		
Parking Fund (231)	\$	77.5	\$	247	\$	750	\$	PYZ	\$		\$	This is	\$	5500 -	\$			
Airport Fund (295)	\$	T. W	\$		\$	ELW'S	\$	The same	\$	CV SX	\$	-03	\$	V 506	\$	2-3		
Capital Proj. Fund (401)	\$	(53,327)	\$	(32,967)	\$	(44,338)	\$	(111,409)	\$	(44,862)	\$	(45,500)	\$	(57,381)	\$	(55,815		
Wastewater Fund (590)	\$	(34,231)	\$	(23,601)	\$	(49, 186)	\$	(25,972)	\$	(22,303)	\$	(21,500)	\$	(31,059)	\$	(28,512		
Water Fund (591)	\$	(143,795)	\$	(376,882)	\$	(156, 130)	\$	(113,012)	\$	(120,086)	\$	(155,500)	\$	(181,981)	\$	(184,322		
Raw Water Part. (599)	\$	1 300	\$	(1,303)	\$	(545)	\$	(279)	\$	Section.	\$		\$	(425)	\$	(425		
Expendable Trust (720)	\$	(6,330)	\$	(4,955)	\$	(940)	\$	(4,784)	\$	(974)	\$	(2,000)	\$	(3,597)	\$	(2,731		
Total Expenditure Credits	\$	(401,095)	\$	(631,651)	\$	(490,088)	\$	(459,482)	\$	(466,910)	\$	(420,500)	\$	(489,845)	\$	(493,726		
Percentage Increase	-5	E de la		57.5%		-22.4%	1	-6.2%		1.6%	14	-9.9%	-	E 11/4	4	1-4		

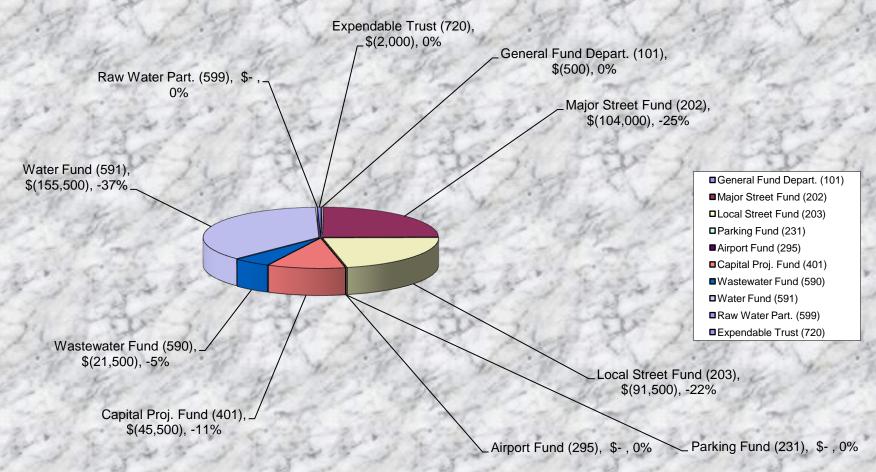
Budget Summary

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CO TO STAN	09-	10 Actual	10-1	11 Actual	11-	12 Actual	12-	13 Actual	13-	14 Proj.	14-1	5 Prop.	5-y	ear average	5-ye	ear average
Operating Total	\$	764,758	\$	839,101	\$	756,262	\$	785,737	\$	726,632	\$	729,823	\$	774,498	\$	767,511
Expenditure Credits	\$	(401,095)	\$	(631,651)	\$	(490,088)	\$	(459,482)	\$	(466,910)	\$	(420,500)	\$	(489,845)	\$	(493,726)
Department Total (Net)	\$	363,663	\$	207,450	\$	266,174	\$	326,255	\$	259,722	\$	309,323	\$	284,653	\$	273,785
Percentage Increase		SE 75 5		-43.0%	1	28.3%	P.	22.6%	619	-20.4%	91	19.1%		1-128		11/10

Engineering – Previous 5-year average Budget Expenditure Credit Distribution (2009-14)



Engineering – FY 14-15 Proposed Budget Expenditure Credit Distribution

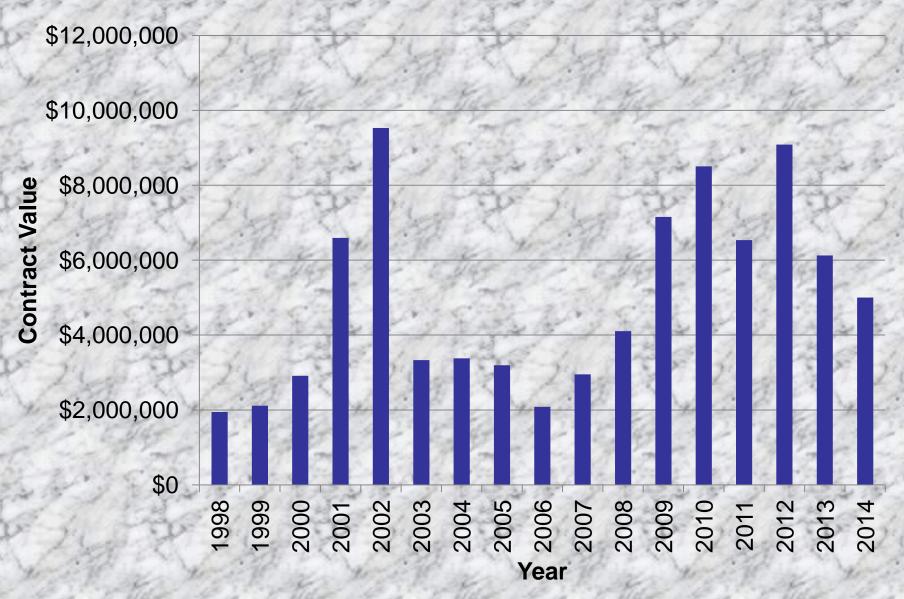


Engineering – Budget - Statistics

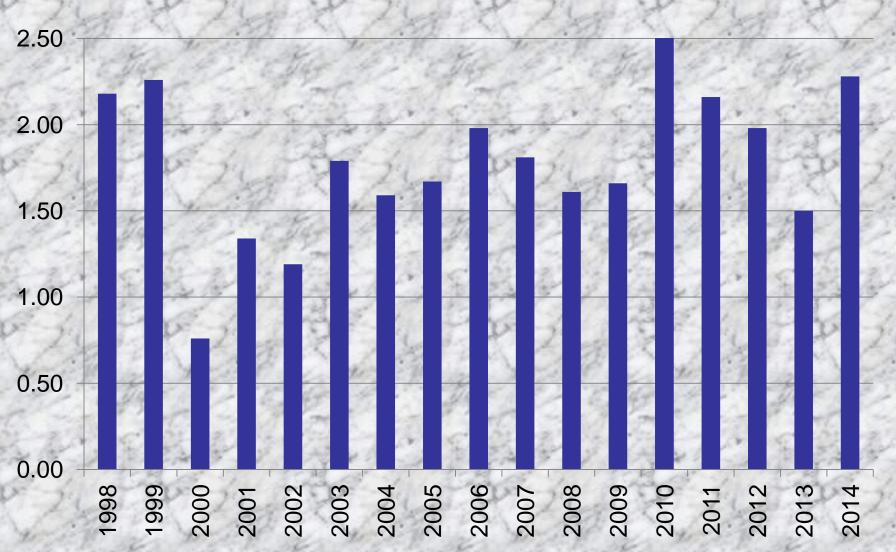


- Expenditure credits represent time charged back to other City funds, typically 15% of a project cost, though full amount was not always charged in past, especially for General fund projects.
- Projected FY 13-14
 expenditures \$726,823, credits
 \$466,910, net \$259,722.
- Proposed FY 14-15
 expenditures \$729,823, credits
 \$420,500, net \$309,323
- Proposed FY 14-15 net is 19% increase from FY 13-14, but fluctuates year to year with project level

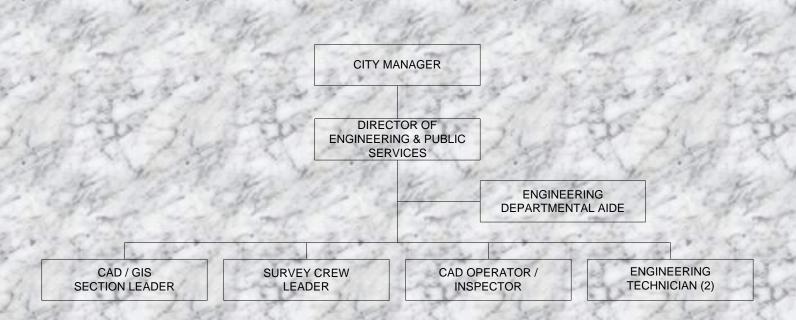
Engineering – Contract History



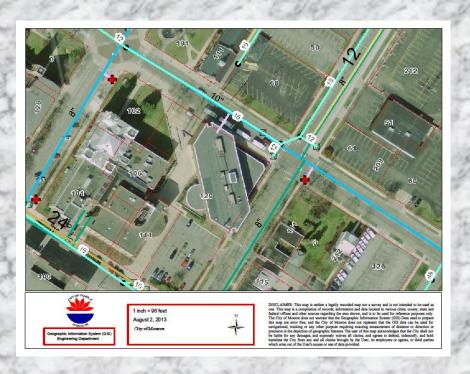
Engineering – Annual Street Mileage Resurfaced or Reconstructed



Engineering – Staffing – Organizational Chart



Engineering – Initiatives and Challenges



- Geographic Information System (GIS)
 - Utilizing for benefit of all departments.
 - Currently have a large part of one staff position devoted to maintenance and development, shared duties with primary CAD work
 - Challenge is prioritizing with other present needs
 - Recently converted to webbased public viewer
 - Working on further web developments, mobile application development, more public interactive features, etc.
 - Major Utility project underway in adjacent townships

Engineering – Initiatives and Challenges

Outside Projects

In addition to surveying, designing, and inspecting projects within City, also responsible for testing of new water mains (Monroe, Raisinville, Exeter, Ida Townships) and sanitary sewers (Frenchtown, Monroe Twp., and Raisinville). Often these are difficult to schedule during peak times.

Record-Keeping

Department is now finally beginning to use clerical staff to assist with long-deferred project to scan all project files into LaserFiche document retrieval system, hoping to complete in 12-18 months.

Peak Scheduling / Cross Training

- ➤ Engineering staff is presently ½ Director, 1 clerical, and 5 employees (consistent since 2009) available for all survey, design, and field activities. We have been utilizing contract inspection when needed, have outsourced specialty design such as bridges, and are using college interns as well. Current staffing appears to be ideal level for full "in-house" staff, further cuts would weaken ability to respond to pressing project needs.
- ➤ All overtime hours are 100% chargeable to outside funds.
- Engineering / DPS clerical overlap working very well, could expand this concept to other departments, particularly Building, as needed.
- Cross-trained Engineering personnel for DPS "on call" supervision
- Feel most major structural changes needed for long-term sustainability have already been achieved, unless there is a significant drop in capital projects moving forward.